




MECHANICAL DATA SHEET: VESSEL

PLANT ITEM No. R10045226
24590-PTF-MV-PWD-VSL-00046

Project.	RPP-WTP	P&ID:	24590-PTF-M6-PWD-P0043
Project No.	24590	Process Data Sheet	NIA
Project Site	Hanford	Vessel Drawing	24590-PTF-MV-PWD-P0005
Description.	C3 Floor Drain Collection Vessel 		

ISSUED BY
RPP-WTP-PDC
JL 3/27/03
DATE

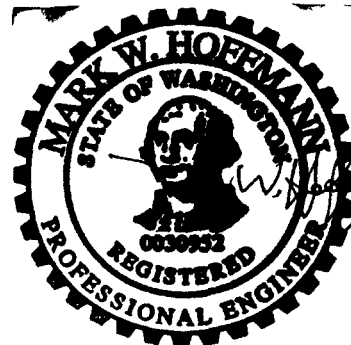
Reference Data

Charge Vessels (Plant Item Numbers)	None
Pulsejet Mixers / Agitators (Plant Item Numbers)	None
RFD(s)/Pump(s) (Plant Item Numbers)	None

Design Data

Quality Level	CM	Fabrication Specs	24590-WTP-3PS-MV00-TP001		
Seismic Category	SC-IV	Design Code	ASME VIII Div 1		
Service/Contents	C3 Drain Fluids	Code Stamp	Yes		
Design Specific Gravity	1.12	NB Registration	Yes		
Operating Volume	gal	4792	Weights (lbs)	Empty	Operating
Total Volume	gal	4982	Estimated	9500 lbs	57800 lbs
			Actual *		53000 lbs

Inside Diameter	inch	96	Wind Design	Not Required	
Length/Height (TL-TL)	inch	126	Snow Design	Not Required	
	Vessel Operating	Vessel Design	Coil/Jacket Design	Seismic Design	24590-WTP-3PS-MV00-TP002
					24590-WTP-3PS-FB01-T0001
Internal Pressure	psig	58	68	NIA	Seismic Base Moment *
External Pressure	psig	4.5	FV	NIA	Postweld Heat Treat
Temperature	°F	200	225	NIA	Corrosion Allowance
Min Design Metal Temp.	°F	20			Hydrostatic Test Pressure *



3/27/03

EXPIRES 12/10/04

This Bound Document Contains a total of 2 pages

1	3/27/03	Revised to Reflect Current Datasheet, Issued for Permitting Use	Jessica Jackson	Cliff Slater	Suzanne Kirk
0	9/17/02	Issued for Permitting Use	Jessica Jackson	Cliff Slater	Suzanne Kirk
REV	DATE	REASON FOR REVISION	PREPARER	CHECKER	APPROVER

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Materials of Construction

Component	Material	Minimum Thickness / Size	Containment
Shell	SA 240 316 with max. Carbon of 0.030 %	See Drawing	Primary
Head	SA 240 316 with max. Carbon of 0.030 %	See Drawing	Primary
Support	SA 240 304 with max. Carbon of 0.030 %	See Drawing	Not Applicable
Jacket/Coils/Half-Pipe Jacket	Not Applicable	Not Applicable	Not Applicable
Internals	SA240 316 with max. Carbon of 0.030 %	See Drawing	Dip Pipe Primary
Pipe	SA312 TP316 Seamless with max. Carbon of 0.030 %	See Drawing	See Note-1
Forgings/ Bar stock/ Flange	SA182 F316 with max. Carbon of 0.030 %	See Drawing	See Note-1
Gaskets (for Blind Flange only)	See Note-4	See Drawing	Auxiliary
Bolting (for Blind Flange only)	SA193 B8	See Drawing	Not Applicable

Miscellaneous Data

Orientation	Horizontal	Support Type	Saddles
Insulation Function	Not Applicable	Insulation Material	Not Applicable
Insulation Thickness (inch)	Not Applicable	Internal Finish	Note 3
		External Finish	Note 3

Remarks

* To be determined by the vendor.

Note 1: Nozzle necks and flanges below the high operating liquid level are Primary, others Auxiliary

Note 2: Vessel supports shall be designed to restrain the vessel in a fully buoyant state

Note 3: Welds surface shall be de-scaled as laid

**Note 4: Spiral Wound with 316L inner & outer ring, 316L winding with flexible graphite filler, Class 150 per ASME B16.20
(to suit ASME B16.5 flange)**